FIG. 1
(Background Art)

```
                    ┌──────────────┐ 10
                    │     CPU      │
                    └──────┬───────┘
                           │
                        HOST Bus
                           │
┌──────────────┐ 11  ┌─────┴────────┐ 12  ┌──────────────┐ 13
│   Display    │     │    Bridge    │     │     Main     │
│  Controller  ├─────┤   Chipset    ├─────┤    Memory    │
└──────────────┘ AGP └──────┬───────┘     └──────────────┘
                 Bus        │
                           System Bus
              ┌─────────────┼──────────────┐
┌──────────────┐ 14  ┌──────┴───────┐ 15  ┌──────────────┐ 16
│     ROM      │     │     LAN      │     │   Embeded    │
│              │     │  Controller  │     │  Controller  │
└──────────────┘     └──────┬───────┘     └──────┬───────┘
                            │                     │ SM Bus
                            ⇕              ┌──────┴───────┐ 17
                     ┌──────┴───────┐ 20   │   Battery    │
                     │    PCMCIA    │      └──────────────┘
                     │     Card     │
                     └──────────────┘
```

FIG. 2
(Background Art)

BSS (Basic Service Set)

STA 2

STA 1

STA 3

Probe Request Frame
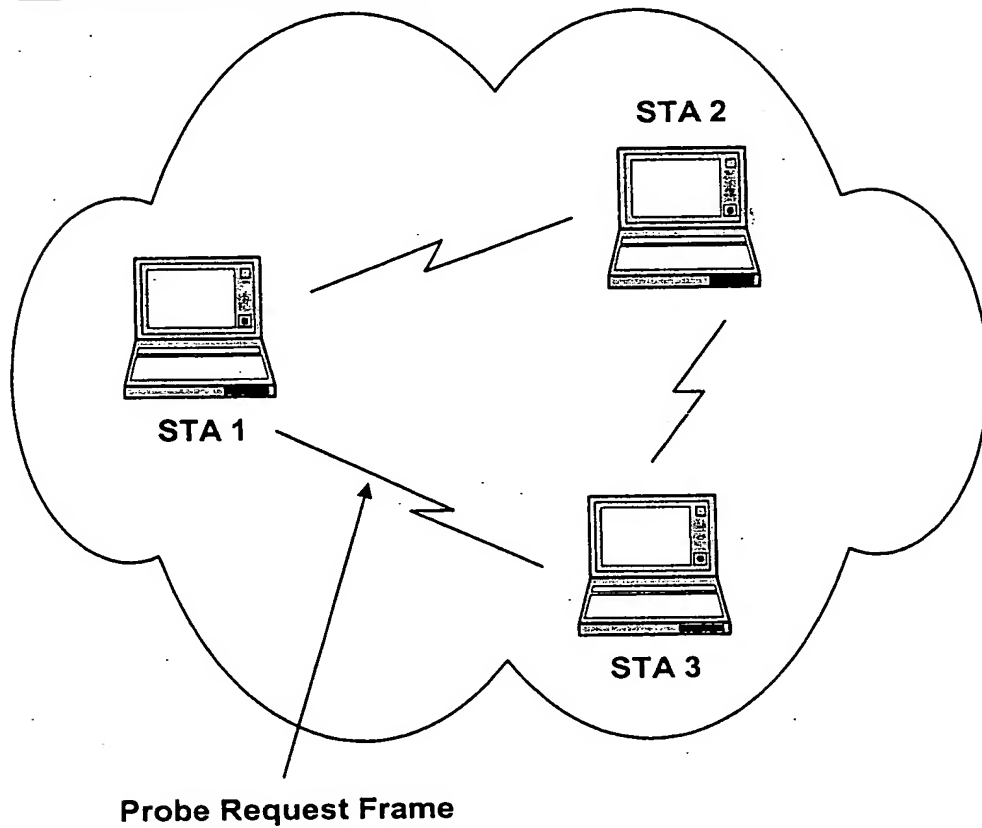
FIG. 3
(Background Art)

ESS (Extended Service Set)

BSS 1

STA 1

Beacon Frame

STA 2

AP

DS
(Distribution System)

AP

BSS 2

STA K

STA M

FIG. 4

30

Ethernet
Driver — **306**

305
Bridge

300
AP
MAC

301
FEC

302
OFDM

304
AP
Controller

Access
Point

303
RF
Front
End

20

PCMCIA
Card

Host Computer

200
STA
MAC

201
FEC

202
OFDM

203
RF
Front
End
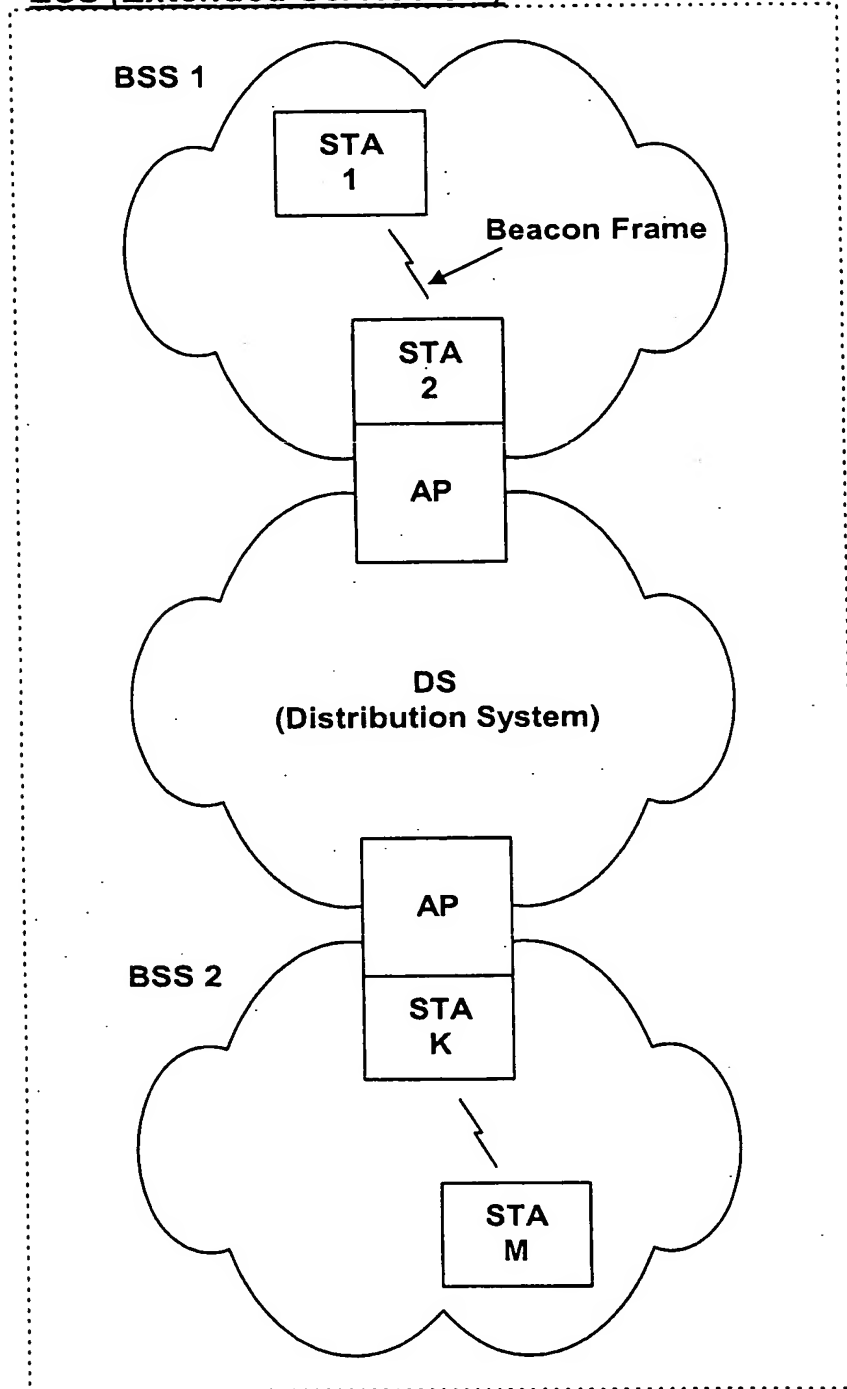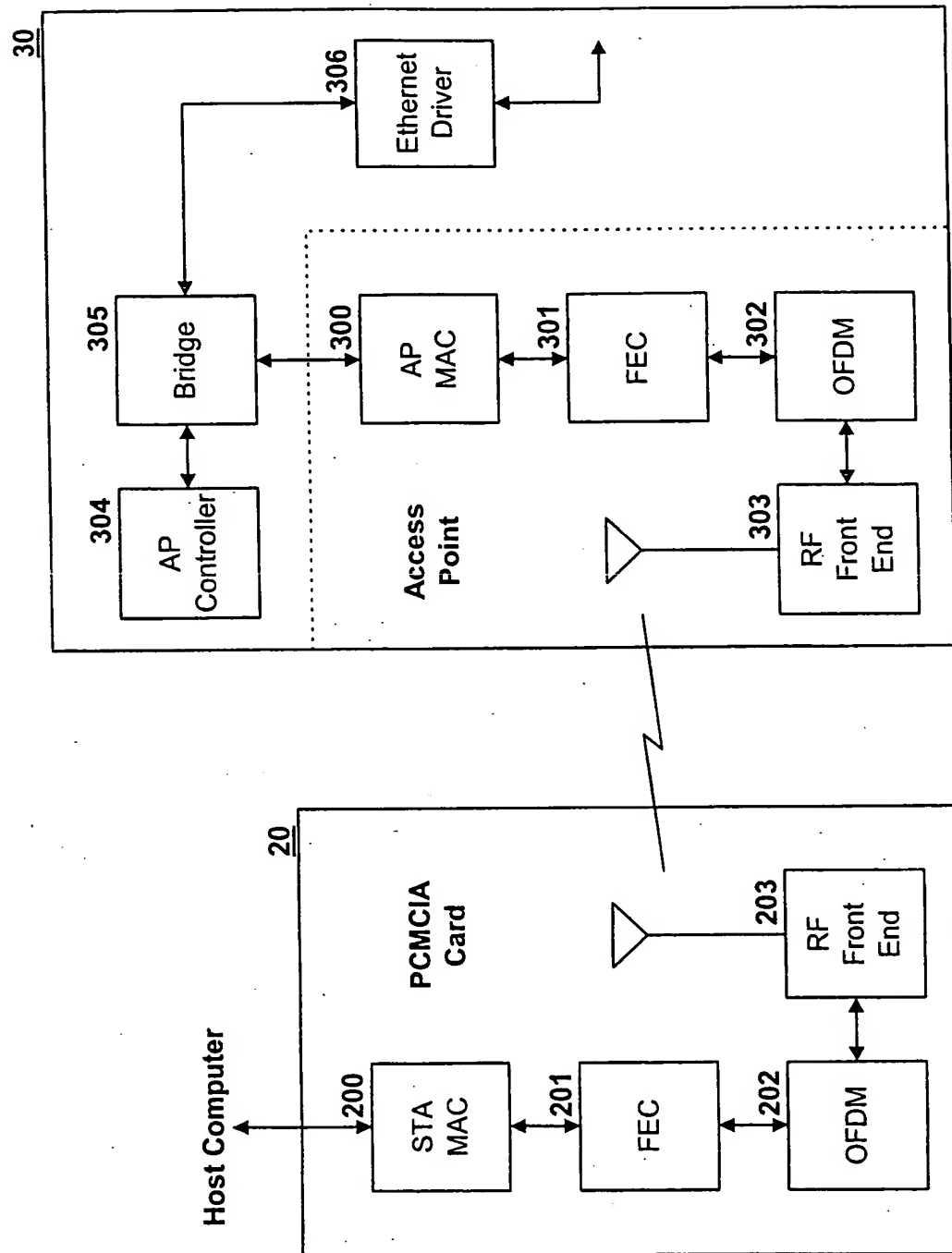
FIG. 5

Beacon frame body

Order	Information
1	Timestamp
2	Beacon interval
3	**Capability information**
4	SSID
5	Supported rates
6	FH Parameter Set
7	DS Parameter Set
8	CF Parameter Set
9	IBSS Parameter Set
10	TIM

B0	B1	B2	B3	B4	**B5 B6**	B7 - - B15
ESS	IBSS	CF Pollable	CF Poll Request	Privacy	**Transfer Speed**	Reserved

B5 B6 : 00 = 11 Mbps
B5 B6 : 01 = 5.5 Mbps
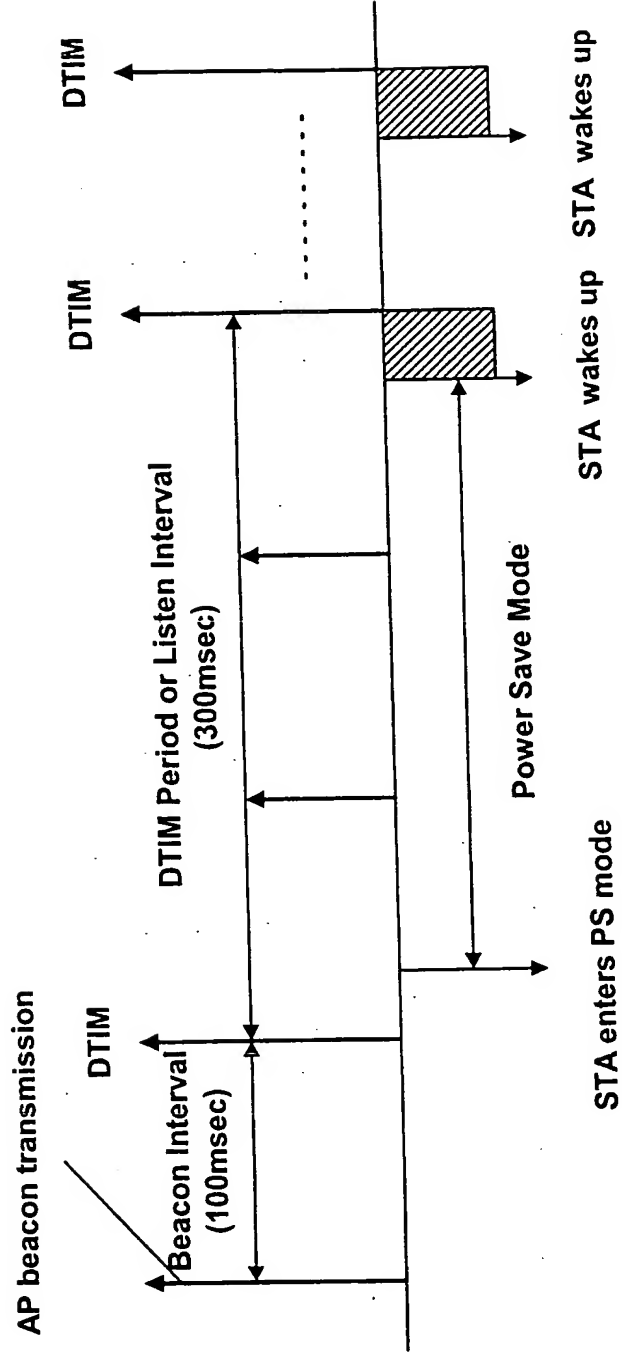B5 B6 : 10 = 2 Mbps
B5 B6 : 11 = 1 Mbps

FIG. 6

Probe request frame body

Order	Information
1	SSID
2	Supported rates
3	**Transfer Speed**
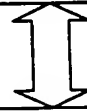
B0 B1 : 00 = 11 Mbps
B0 B1 : 01 = 5.5 Mbps
B0 B1 : 10 = 2 Mbps
B0 B1 : 11 = 1 Mbps

FIG. 7

FIG. 8

Beacon frame body

Order	Information
1	Timestamp
2	**Beacon interval**
3	Capability information
4	SSID
5	Supported rates
6	FH Parameter Set
7	DS Parameter Set
8	CF Parameter Set
9	IBSS Parameter Set
10	TIM

B0 - - B4	**B5 B6**	B7 - - B15
- - - -	Power Save Period	- - -
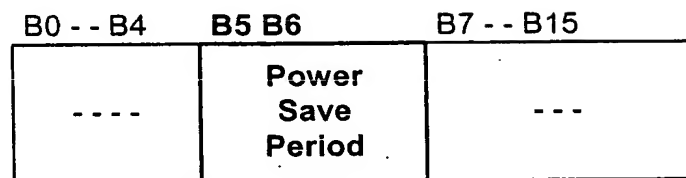
B5 B6 : 00 = 300 msec
B5 B6 : 01 = 400 msec
B5 B6 : 10 = 500 msec
B5 B6 : 11 = 650 msec